BRUHAT BANGALORE MAHANAGARA PALIKE

Office of the Executive Engineer, Rajarajeshwari Nagara Division, RR Nagara Zone, B.B.M.P., Bangalore.

Tender Notification No: EE/RRND/Tend/02/2020-21 Date: 10.06.2020

Indet No: BBMP/2019-20/BD/WORK_INDENT40630/CALL-2

SCHEDULE -B

Name of Work: Construction of Toilets inside JP Park in ward no 17

Sl.No	Qty	Description of work	Unit	In Figures (Rs.)	In Words (Rs.)
1	2	3	4	5	6
1	111.40	Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeeding 50 m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and nealty dressed as per specifications Complete as per the direction of Engineer in Charge with all lead and Lift	Cum	173.00	Rupees One Hundred Seventy Three Only
2	239.60	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods complete as per specifications.Complete as per the direction of Engineer in Charge with all lead and Lift	Cum	329.00	Rupees Three Hundred Twenty Nine Only
3	27.60	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 5.75 cum machine mixed, concrete laid in layers not exceeding 15 cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specification.	Cum	5500.00	Rupees Five Thousand Five Hundred Only
4	64.40	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @320kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walla (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, structs, buttresses, string or lacing courses, parpets, coping, bed blocks, anchor, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specification. Complete as per the direction of Engineer in Charge with all lead and Lift	Cum	6500.00	Rupees Six Thousand Five Hundred Only
5	158.20	Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of beams, beam hauncing cantilever girders, bressumers & lintels & not exceeding 1.0 in depth including cost of all materials, labour complete as per specifications.	Sqm	350.00	Rupees Three Hundred Fifty Only

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6	355.70	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications.	Sqm	485.00	Rupees Four Hundred Eighty Five Only
7	6.50	Providing and laying in position reinforced cement cocnrete of design mix M20 with OPC cement @ 27.20 Kgs with 12mm & down sizes graded grantie metal coarse aggregated @ 0.5865 cum & fine aggregates, @ 0.391 Cum with super super plastisiser @ 0.225 Ltrs maichine mixed well compacted plain chajja 8.50 Cms avg thickness, up to ground floor level including removing centering, shuttering, strutting, propping etc., and removal of form work for cost of all materials, laobur HOM of machinary, curing complete as per specification.Ground floor	Sqm	485.00	Rupees Four Hundred Eighty Five Only
8	13.00	Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels of all shapes & sizes, at all elevations & heights.Complete as per the direction of Engineer in Charge with all lead and Lift	Sqm	356.00	Rupees Three Hundred Fifty Six Only
9	6.82	Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. Specification No.KBS 4.6.3. FOR TMT Bars Fe- 500 Ground Floor Complete as per the direction of Engineer in Charge with all lead and Lift	Tonne	79000.00	Rupees Seventy Nine Thousand Only
10	94.30	Providing & Constructing Granite/ trap/basalt size stone Masonary in basement with Cement morter 1:8 edges of stone chistle dressed in courses not less than 15 cms high, bond stones at two mtr apart in each course including cost of all materials, labour, curing complete as per specifications Complete as per the direction of Engineer in Charge with all lead and Lift	Cum	6200.00	Rupees Six Thousand Two Hundred Only
11	95.90	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. In depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5m. Inluding cost of all labour complete as per speicifications.Complete as per the direction of Engineer in Charge with all lead and Lift	Cum	220.00	Rupees Two Hundred Twenty Only
12	426.00	Providing and constructing Pre cast solid blocks with Compressive strength not less than 35 kg/ sqm with cement morter 1:4 masonary (quion, Jamb, closer block) with solid concrete blockx of size 40 x 15 x 20 cms confirming to IS 2185/1965 in super structures including cost of materials, labour charges, scaffolding, curing complete as per specifications. Complete as per the direction of Engineer in Charge with all lead and Lift.	Sqm	1000.00	Rupees One Thousand Only
13	30.30	Providing & constructing non load bearing walls cemect concrete solid blocks with compressive strength not less than 35 kg/sqm with cement morter 1:4 (jamb, closer blocks) with blocks of size 40X10X20. (LXBXH) confirming to I.S. : 2185/1965 in super structure including cost of materials, labour charges, scaffolding, curing complete as per specification.Complete as per the direction of Engineer in Charge with all lead and Lift.	Sqm	950.00	Rupees Nine Hundred Fifty Only

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14	458.60	Providing 18mm thick cement plaster in single coat with cement mortor 1:3 to Brick masonary including rounding off corners wherver required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Complete as per the direction of Engineer in Charge with all lead and Lift	Sqm	310.00	Rupees Three Hundred Ten Only
15	821.50	Providing 18mm thick cement plaster in single coat with cement mortor 1:4, to brick masonry including rounding off corners wherver required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(internal). Complete as per the direction of Engineer in Charge with all lead and Lift	Sqm	288.00	Rupees Two Hundred Eighty Eight Only
16	279.00	Providing 12mm thick cement plaster in single coat with cement mortor 1:3, to ceiling including rounding off corners wherver required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. GG. Complete as per the direction of Engineer in Charge with all lead and Lift. Complete as per the direction of Engineer in Charge with all lead and Lift	Sqm	298.00	Rupees Two Hundred Ninety Eight Only
17	278.16	Providing INTEGRAL CRYSTALINE Waterproofing treatment to the sunken portion of toilets. Using Crystalline Slurry of approved make @ 1.40 kg per SQM in two coats (0.7 Kg per coat) confirming to ASTM S 1202 & DINV 18998 standards. Complete as per the direction of Engineer in Charge with all lead and Lift.	Sqm	500.00	Rupees Five Hundred Only
18	45.36	Providing and fixing of factorymade 30 mm P.V.C door frame of size 50x47 mm with a wall thickness of 5 mm made out of extrued 5 mm rigid PVC foamsheet metered cut at cornwers & jointed 2 nos 150 mm long brackets of 15 x 15 mm MS Square tube, the entire door frame to be reinforced with 19 x 19 m square tube of 19 gauge. the door frame to be fixed to the wall using MS screws of 65 /80 mm size complete as per manufacturers specification& directions of Engineer in charge. Complete as per the direction of Engineer in Charge with all lead and Lift	Sqm	520.00	Rupees Five Hundred Twenty Only
19	41.40	Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19 x 19mm for styles and 15 x 15mm for top and bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5 x 30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 mm Aluminium hinges. GG. Complete as per the direction of Engineer in Charge with all lead and Lift	Sqm	2600.00	Rupees Two Thousand Six Hundred Only

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20	2.20	Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 kg/m both for outer and inner frames and central mullion section of size 25x46x3mm weighing 2.28 Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S. 7452 : 1990, 4nos, of holdfasts of approved size, section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour, and HOM of machinery complete as per specifications. Complete as per the direction of Engineer in Charge with all lead and Lift	Sqm	4294.00	Rupees Four Thousand Two Hundred Ninety Four Only
21	43.60	Providing and fixing in position black cuddapah slab / Shahabad Slab/Thandur blue slab 4 cms thick for roofing laid to line and level over wooden rafters or RCC battens pointing exposed joints with cement mortar 1:4 including cost of materials, labour, curing complete as per specifications. Complete as per the direction of Engineer in Charge with all lead and Lift	Sqm	700.00	Rupees Seven Hundred Only
22	367.00	Providing ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick cement mortor 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. size 30x30cms. Complete as per the direction of Engineer in Charge with all lead and Lift	Sqm	1340.00	Rupees One Thousand Three Hundred Forty Only
23	80.50	Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Complete as per the direction of Engineer in Charge with all lead and Lift	Sqm	1405.00	Rupees One Thousand Four Hundred Five Only
24	741.00	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. Complete as per the direction of Engineer in Charge with all lead and Lift.	Sqm	120.00	Rupees One Hundred Twenty Only
25	279.00	Providing and applying two coats with oil bound washable distemper of approved brand and shade on Ceiling surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. Complete as per the direction of Engineer in Charge with all lead and Lift	Sqm	127.00	Rupees One Hundred Twenty Seven Only

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26	458.60	Water proof cement paint KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint with primer of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. (P.No.124/15.53.2) '--do with Primer-- GG. Complete as per the direction of Engineer in Charge with all lead and Lift	Sqm	112.00	Rupees One Hundred Twelve Only
27	12.00	Providing and fixing white vitreous china clay, water closet Indian type (Squatting pan) of size 580mm with footrests, 100mm S or P trap, (approved make) cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Complete as per the direction of Engineer in Charge with all lead and Lift	Each	1466.00	Rupees One Thousand Four Hundred Sixty Six Only
28	12.00	Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Complete as per the direction of Engineer in Charge with all lead and Lift	Each	3200.00	Rupees Three Thousand Two Hundred Only
29	8.00	Providing & fixing CI Nahani trap of approved make confirming to ISI specification and construction of cistren in M 15 as per directions. Complete as per the direction of Engineer in Charge with all lead and Lift	Each	270.00	Rupees Two Hundred Seventy Only
30	8.00	Providing and fixing in position CP bib cock of approved quality 20 mm nominal bore including cost of all materials, labour and HOM of equipments with alll leads complete as per specifications. Complete as per the direction of Engineer in Charge with all lead and Lift	Each	190.00	Rupees One Hundred Ninety Only
31	8.00	Providing and fixing white vitreous china clay, flat back wash basin size 550x400mm with a single 15mm C.P brass pillar tap with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Complete as per the direction of Engineer in Charge with all lead and Lift	Nos	3328.00	Rupees Three Thousand Three Hundred Twenty Eight Only
32	16.00	Providing and fixing to wall, ceiling and floor , Medium density polyethylene pipes 6.00 kgf /sqcm working pressure	Mtrs	359.00	Rupees Three Hundred Fifty
33	28.00	Providing and fixing to wall, ceiling and floor , Medium density polyethylene pipes 6.00 kgf /sqcm working pressure	Mtrs	419.00	Rupees Four Hundred
34	20.00	Providing and fixing to wall, ceiling and floor , Medium density polyethylene pipes 6.00 kgf /sqcm working pressure	Mtrs	496.00	Rupees Four Hundred Ninety
35	12.00	Providing and fixing to wall, ceiling and floor chlorinated poly vinyl chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all cpvc plain and brasss threaded fittings including fixing thepipes with the clamp at 1.00mtr spacing . This includes joining of pipes fittings with one set of cpvc solvent cement and testing of joints complete (Internal works) (Concealed work including cutting chases and good the walls etc.)A)15mm dia pipe nominal OD pipes Complete as per the direction of Engineer in Charge with all lead and Lift	Mtrs	227.00	Rupees Two Hundred Twenty Seven Only

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36	40.00	Providing and fixing to wall, ceiling and floor chlorinated poly vinyl chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all cpvc plain and brasss threaded fittings including fixing thepipes with the clamp at 1.00mtr spacing . This includes joining of pipes fittings with one set of cpvc solvent cement and testing of joints complete (Internal works) (Concealed work including cutting chases and good the walls etc.) B)20 mm dia pipe nominal OD pipes Complete as per the direction of Engineer in Charge with all lead and Lift	Mtrs	259.00	Rupees Two Hundred Fifty Nine Only
37	12.00	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) NB including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification no: KBS 13.2.6/ a) of 20mm dia. Complete as per the direction of Engineer in Charge with all lead and Lift	Nos	360.00	Rupees Three Hundred Sixty Only
38	8.00	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) NB including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification no: KBS 13.2.6/ b) of 25mm dia. Complete as per the direction of Engineer in Charge with all lead and Lift	Nos	485.00	Rupees Four Hundred Eighty Five Only
39	800.00	Supplying water storage tanks made of virgin polymer (LLDPE) with two layers outer Black or Blue and inner White layer of approved quality and make, conforming to I.S.I./ISO/SSI specifications. Complete as per the direction of Engineer in Charge with all lead and Lift	Nos	5.00	Rupees Five Only
40	20.00	Providing and fixing to wall, ceiling and floor chlorinated poly vinyl chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all cpvc plain and brasss threaded fittings including fixing thepipes with the clamp at . This includes joining of pipes fittings with one set of cpvc solvent cement and testing of joints complete (External works) 20 mm dia pipe nominal OD pipes. Complete as per the direction of Engineer in Charge with all lead and Lift	mtrs	160.00	Rupees One Hundred Sixty Only
41	80.00	Providing and fixing to wall, ceiling and floor chlorinated poly vinyl chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all cpvc plain and brasss threaded fittings including fixing thepipes with the clamp at . This includes joining of pipes fittings with one set of cpvc solvent cement and testing of joints complete (External works) 25 mm dia pipe nominal OD pipes. Complete as per the direction of Engineer in Charge with all lead and Lift	mtrs	197.00	Rupees One Hundred Ninety Seven Only
42	20.00	Providing and fixing to wall, ceiling and floor , high density polyethylene pipes 6.00 kgf /sqcm working pressure 110 mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor in b) 110 mm dia. Complete as per the direction of Engineer in Charge with all lead and Lift	Mtrs	259.00	Rupees Two Hundred Fifty Nine Only
43	8.00	Providing stone ware gully trap of approved quality and fixing in C C 1:2:4 and plastering with C M 1:3 where ever necessary (Rate including cost of all materials, fixtures and lead). Size: 15 cm x 10 cm. Complete as per the direction of Engineer in Charge with all lead and Lift	Each	209.00	Rupees Two Hundred Nine Only

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44	8.00	Constructing brick masonry inspection chamber 450x450mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 455x450 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M15 with 20mm and downsize granite metal, foundation concrete M5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Complete as per the direction of Engineer in Charge with all lead and Lift	Nos	8568.85	Rupees Eight Thousand Five Hundred Sixty Eight And Paise Eighty Five Only

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